

STATISTICAL COMPARISON

OF FRAME COVERAGE IN MISSION REVIEW

TYPE REPORTS

Declass Review by NIMA/DOD

CIA/HTA-CR-1-57

PREPARED BY

**CLASSIFICATION UNIT / INFORMATION SECTION
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WORKING AID III

CLASSIFICATION UNIT

STATISTICAL COMPARISON OF FRAME COVERAGE

IN MISSION REVIEW TYPE REPORTS

11 February 1957

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I. INTRODUCTION

A. Objectives. This report has been produced in answer to a request of the Minicard planners of the Machine Section. It is designed to answer four basic questions.

1. What percentage of the total number of frames in a mission is cited by:

- a. CIA
- b. Army
- c. Navy
- d. Air Force

2. What percentage of the frames cited in the Mission Coverage Summary deals only with geographic features or agriculture rather than specific installations?

3. What percentage of the total number of frames in a mission is cited by one or more of the Services, but not cited by CIA?

4. What percentage of the total number of frames in which CIA cited only geographic features or agriculture was cited as containing specific installations by one or more of the Services?

B. Methods. In order to answer these questions, the first eight missions flown were used to compile percentages. The missions are: 2003, 2009, 2010, 2013, 2014, 2020, 2021, and 2024. All review type reports based on these missions, which have been received by the Classification Unit to date were used to compile percentages. Transcript sheets were arranged in such a manner that each frame of each camera of each mission were indicated vertically and the four processing organizations were indicated horizontally across the top of the sheet, once for each camera of the mission. When an organization cited a frame, the proper box was checked. In this way, one can glance down the sheet and see a side by side comparison of the coverage of the frames by each organization. When only geographic features or agriculture were indicated, the check was circled in red. These transcript sheets for each of the eight missions are available on request. For each camera of each mission percentages were worked out. Individual figures for each mission are available on

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request. Inasmuch as the film from Camera 1 was assigned frame numbers only by the Air Force, it is omitted in computing our figures. Percentage figures are rounded off to the nearest whole number.

C. Product. In order to answer the questions indicated above, the information derived from this study is organized in three segments.

1. A summary of the totals for all eight missions along with the desired percentages.

2. A detailed breakdown of the totals and percentages by mission and by camera within mission.

3. Two graphics, one comparing the coverage by each originator for Camera 8, Mission 2013, and the other comparing the coverage by each originator for three cameras of Mission 2014. These are available for examination on request.

II. SUMMARY OF STATISTICS

BOX A. Reports submitted on first eight missions and degree of coverage				
MISSION	CIA	ARMY	NAVY	AIR FORCE
2003	x	x		x
2009	x (Cam. 1)	x		x
2010	x	x (Part)	x (Part)	x
2013	x	x	x (Part)	x
2014	x	x	x (Part)	x
2020	x			x
2021	x		x (Part)	x
2024	x			x

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BOX B. Percentages derived from total frame count of all eight missions without regard to individual camera or mission figures.					
ORIGINATOR	TOTAL FRAMES FOR EIGHT MISSIONS	TOTAL FRAMES CITED	PERCENT FRAMES CITED TO TOTAL FRAMES	FRAMES AGRICULTURE FOREST ETC.	PERCENT FRAMES AGRICULTURE TO TOTAL FRAMES CITED
CIA	18308*	8621	47%	4459	52%**
ARMY	18308	2189	12%	0	0
NAVY	18308	283	1.5%	0	0
AIR FORCE	18308	984	5%	0	0
<p>* Camera 6 of Mission 2013, as well as Cameras 6 and 8 of Mission 2010 have not been included in this figure.</p> <p>** Only runs of frames which had agriculture, forest, marsh, water, coast, bog, etc., were counted. Many runs of frames cited agriculture and villages, or agriculture and towns. Such frames were not included in this percentage; if they were, the figure would be increased by a substantial amount.</p>					

BOX C. Percentages derived from total frames reviewed in all eight missions.			
ORIGINATOR	TOTAL FRAMES REVIEWED BY ORIGINATOR FOR EIGHT MISSIONS*	TOTAL FRAMES CITED	PERCENT OF FRAMES CITED TO TOTAL FRAMES REVIEWED
CIA	18308	8621	47%
ARMY	8893	2189	25%
NAVY	9729	283	3%
AIR FORCE	18308	984	5%
* Note difference from second column in Box B.			

BOX D. Percentage of total frames not cited by CIA but cited by one or more of the services in Missions 2013 and 2014 - to the total number of frames in Missions 2013 and 2014. (These were the only missions which could be used for such a comparison.)		
I. COMBINED TOTAL FRAMES IN MISSIONS 2013 AND 2014	II. FRAMES NOT CITED BY CIA BUT CITED BY ONE OR MORE OF THE SERVICES	III. PERCENTAGE OF COLUMN II TO COLUMN I
5413	671	12%

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BOX E. Percentage of total frames cited as agriculture, etc., by CIA, but in which specific installations were identified by one or more of the services. (These figures are for Missions 2013 and 2014, since they were the only missions which lent themselves to this type of comparison.)		
I. COMBINED TOTAL FRAMES IN MISSIONS 2013 AND 2014 CITED BY CIA AS AGRICULTURE, FORESTS, ETC.	II. FRAMES FROM COLUMN I IN WHICH ONE OR MORE SERVICE CITED SPECIFIC INSTALLATIONS	III. PERCENTAGE OF COLUMN II TO COLUMN I
1293	413	32%

III. STATISTICAL BREAKDOWN BY MISSION AND CAMERA

MISSION 2003
20 June 1956

		TOTAL FRAMES	TOTAL FRAMES CITED IN REPORT	PERCENT (FRAMES CITED TO TOTAL FRAMES IN REPORT)	FRAMES- AGRIC. FORESTS, BOGS, CLOUDS, ETC.	PERCENT (FRAMES ON AGRIC. TO TOTAL CITED)
CAMERA 6	CIA	747	119	16%	49	41%
	Army	747	47	6%	0	0
	Navy*	-	-	-	-	-
	A/F	747	9	1%	0	0
CAMERA 7	CIA	734	137	19%	20	15%
	Army	734	74	10%	0	0
	Navy*	-	-	-	-	-
	A/F	734	32	4%	0	0
CAMERA 8	CIA	717	121	17%	0	0
	Army	717	64	9%	0	0
	Navy*	-	-	-	-	-
	A/F	717	7	1%	0	0
TOTALS	CIA	2198	377	17%	69	18%
	Army	2198	185	8%	0	0
	Navy*	-	-	-	-	-
	A/F	2198	48	2%	0	0

MISSION 2003

* On Mission 2003 the Navy has not submitted a mission review report.

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MISSION 2009

2 July 1956

		TOTAL FRAMES	TOTAL FRAMES CITED IN REPORT	PERCENT (FRAMES CITED TO TOTAL FRAMES IN REPORT)	FRAMES- AGRIC. FORESTS, BOGS, CLOUDS, ETC.	PERCENT (FRAMES ON AGRIC. TO TOTAL CITED)
C A M E R A 6	CIA*	68	0	0	0	0
	Army	68	0	0	0	0
	Navy#	-	-	-	-	-
	A/F#	-	-	-	-	-
C A M E R A 7	CIA*	58	0	0	0	0
	Army	58	18	31%	0	0
	Navy#	-	-	-	-	-
	A/F#	-	-	-	-	-
C A M E R A 8	CIA*	58	0	0	0	0
	Army	58	15	26%	0	0
	Navy#	-	-	-	-	-
	A/F#	-	-	-	-	-
T O T A L S	CIA*	184	0	0	0	0
	Army	184	33	18%	0	0
	Navy#	-	-	-	-	-
	A/F#	-	-	-	-	-

MISSION 2009

* CIA cited only photography from Camera 1 on Mission 2009.

Navy and Air Force have not published mission reviews on this mission.

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MISSION 2010
2 July 1956

		TOTAL FRAMES	TOTAL FRAMES CITED IN REPORT	PERCENT (FRAMES CITED TO TOTAL FRAMES IN RPT.)	FRAMES-AGRIC. FORESTS, BOGS, CLOUDS, ETC.	PERCENT (FRAMES ON AGRIC. TO TOTAL CITED)
C A M E R A 7	CIA	1098	642	58%	337	52
	Army	1098	149	14%	0	0
	Navy	1098	116	11%	0	0
	A/F	1098	111	10%	0	0

MISSION 2010

Due to camera malfunction, photography from Camera 6 and Camera 8 was not used by any originator in reviewing this mission.

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MISSION 2013

4 July 1956

		TOTAL FRAMES	TOTAL FRAMES CITED IN REPORT	PERCENT (FRAMES CITED TO TOTAL FRAMES IN REPORT)	FRAMES- AGRIC. FORESTS, BOGS, CLOUDS, ETC.	PERCENT (FRAMES ON AGRIC. TO TOTAL CITED)
C A M E R A 6	CIA*	1077	0	0	0	0
	Army*	1077	0	0	0	0
	Navy*	1077	0	0	0	0
	A/F*	1077	0	0	0	0
C A M E R A 7	CIA	1095	768	70%	546	71%
	Army	1095	552	50%	0	0
	Navy	1095	44	4%	0	0
	A/F	1095	112	10%	0	0
C A M E R A 8	CIA	1014	189	19%	26	14%
	Army	1014	381	38%	0	0
	Navy	1014	10	1%	0	0
	A/F	1014	87	9%	0	0
T O T A L S	CIA	2109	957	45%	572	60%
	Army	2109	933	44%	0	0
	Navy	2109	54	3%	0	0
	A/F	2109	199	9%	0	0

MISSION 2013

* Due to badly fogged film, photography from Camera 6 was not used by any originator in reviewing this mission.

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MISSION 2014
5 July 1956

		TOTAL FRAMES	TOTAL FRAMES CITED IN REPORT	PERCENT (FRAMES CITED TO TOTAL FRAMES IN RPT.)	FRAMES- AGRIC. FORESTS, BOGS, CLOUDS, ETC.	PERCENT (FRAMES ON AGRIC. TO TOTAL CITED)
C A M E R A 6	CIA	1110	763	69%	435	57%
	Army	1110	323	29%	0	0
	Navy	1110	12	1%	0	0
	A/F	1110	61	5%	0	0
C A M E R A 7	CIA	1114	394	35%	130	33%
	Army	1114	352	32%	0	0
	Navy	1114	48	4%	0	0
	A/F	1114	105	9%	0	0
C A M E R A 8	CIA	1080	282	26%	156	55%
	Army	1080	214	20%	0	0
	Navy	1080	19	2%	0	0
	A/F	1080	39	4%	0	0
T O T A L S	CIA	3304	1439	44%	721	50%
	Army	3304	889	27%	0	0
	Navy	3304	79	2%	0	0
	A/F	3304	205	6%	0	0

MISSION 2014

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MISSION 2020
9 July 1956

		TOTAL FRAMES	TOTAL FRAMES CITED IN REPORT	PERCENT (FRAMES CITED TO TOTAL FRAMES IN RPT.)	FRAMES- AGRIC. FORESTS, BOGS, CLOUDS, ETC.	PERCENT (FRAMES ON AGRIC. TO TOTAL CITED)
C A M E R A 6	CIA	744	436	59%	337	77%
	Army*	-	-	-	-	-
	Navy*	-	-	-	-	-
	A/F	744	25	3%	0	0
C A M E R A 7	CIA	1050	432	41%	247	57%
	Army*	-	-	-	-	-
	Navy*	-	-	-	-	-
	A/F	1050	38	4%	0	0
C A M E R A 8	CIA	1050	648	62%	528	81%
	Army*	-	-	-	-	-
	Navy*	-	-	-	-	-
	A/F	1050	70	7%	0	0
T O T A L S	CIA	2844	1516	53%	1112	73%
	Army*	-	-	-	-	-
	Navy*	-	-	-	-	-
	A/F	2844	133	5%	0	0

MISSION 2020

* Army and Navy have not yet published mission reviews on this mission.

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MISSION 2021
9 July 1956

		TOTAL FRAMES	TOTAL FRAMES CITED IN REPORT	PERCENT (FRAMES CITED TO TOTAL FRAMES IN RPT.)	FRAMES- AGRIC. FORESTS, BOGS, CLOUDS, ETC.	PERCENT (FRAMES ON AGRIC. TO TOTAL CITED)
C A M E R A 6	CIA	1104	549	50%	401	73%
	Army*	-	-	-	-	-
	Navy	1104	7	1%	0	0
	A/F	1104	43	4%	0	0
C A M E R A 7	CIA	1103	421	38%	223	53%
	Army*	-	-	-	-	-
	Navy	1103	13	1%	0	0
	A/F	1103	72	7%	0	0
C A M E R A 8	CIA	1011	354	35%	200	56%
	Army*	-	-	-	-	-
	Navy	1011	14	1%	0	0
	A/F	1011	44	4%	0	0
T O T A L S	CIA	3218	1324	41%	824	62%
	Army*	-	-	-	-	-
	Navy	3218	34	1%	0	0
	A/F	3218	159	5%	0	0

MISSION 2021

* Army has not yet published a mission review on this mission.

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MISSION 2024
10 July 1956

		TOTAL FRAMES	TOTAL FRAMES CITED IN REPORT	PERCENT (FRAMES CITED TO TOTAL FRAMES IN RPT.)	FRAMES-AGRIC. FORESTS, BOGS, CLOUDS, ETC.	PERCENT (FRAMES ON AGRIC. TO TOTAL CITED)
C A M E R A 6	CIA	1118	851	76%	678	80%
	Army*	-	-	-	-	-
	Navy*	-	-	-	-	-
	A/F	1118	24	2%	0	0
C A M E R A 7	CIA	1119	807	72%	123	15%
	Army*	-	-	-	-	-
	Navy*	-	-	-	-	-
	A/F	1119	81	7%	0	0
C A M E R A 8	CIA	1116	708	63%	23	3%
	Army*	-	-	-	-	-
	Navy*	-	-	-	-	-
	A/F	1116	24	2%	0	0
T O T A L S	CIA	3353	2366	71%	824	35%
	Army*	-	-	-	-	-
	Navy*	-	-	-	-	-
	A/F	3353	129	4%	0	0

MISSION 2024

* Army and Navy have not yet published review reports on this mission.

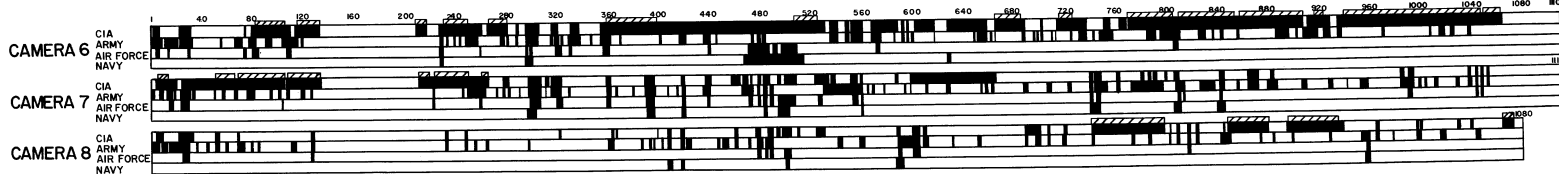
COMPARISON OF MISSION COVERAGE

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GRAPHIC NO.2

11 FEBRUARY 1957

MISSION 2014



LEGEND

- FRAME COVERAGE
- AGRICULTURE, FOREST, MARSH, ETC.

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